

## 8. REFERENCES

- Dietrich KN, Krafft KM, Bier M, et al. 1989. Neurobehavioral effects of foetal lead exposure: The first year of life. In: Smith M, Grant LD, Sors A, eds. Lead exposure and child development: An international assessment. Lancaster, UK: Kluwer Academic Publishers, 320-331.
- Dietrich KN, Krafft KM, Bier M, et al. 1986. Early effects of fetal lead exposure: Neurobehavioral findings at 6 months. *Int J Biosoc Res* 8(2):151-168.
- Dietrich KN, Krafft KM, Shukla R, et al. 1987. The neurobehavioral effects of early lead exposure. In: Schroeder SR, ed. Toxic substances and mental retardation: Neurobehavioral toxicology and teratology. Washington, DC: American Association on Mental Deficiency, 71-95.
- Dietrich KN, Succop PA, Berger OG, et al. 1991. Lead exposure and the cognitive development of urban preschool children: The Cincinnati Lead Study cohort at age 4 years. *Neurotoxicol Teratol* 13(2):203-211.
- Dietrich KN, Succop PA, Berger OG, et al. 1992. Lead exposure and the central auditory processing abilities and cognitive development of urban children: The Cincinnati Lead Study cohort at age 5 years. *Neurotoxicol Teratol* 14(1):51-56.
- Dingwall-Fordyce I, Lane RE. 1963. A follow-up study of lead workers. *Br J Ind Med* 20:313-315.
- Dixon SL, Gaitens JM, Jacobs DE, et al. 2009. Exposure of U.S. children to residential dust lead, 1999-2004: II. The contribution of lead-contaminated dust to children's blood lead levels. *Environ Health Perspect* 117(3):468-474. 10.1289/ehp.11918.
- DOE. 2016. Table 3: Protective Action Criteria (PAC) Rev. 29 based on applicable 60-minute AEGLs, ERPGs, or TEELs. The chemicals are listed by CASRN. May 2016. Oak Ridge, TN: U.S. Department of Energy. [https://sp.eota.energy.gov/pac/teel/Revision\\_29\\_Table3.pdf](https://sp.eota.energy.gov/pac/teel/Revision_29_Table3.pdf). February 28, 2017.
- Dongre NN, Suryakar AN, Patil AJ, et al. 2013. Biochemical effects of lead exposure on battery manufacture workers with reference to blood pressure, calcium metabolism and bone mineral density. *Indian J Clin Biochem* 28(1):65-70. 10.1007/s12291-012-0241-8.
- do Nascimento SN, Charao MF, Moro AM, et al. 2014. Evaluation of toxic metals and essential elements in children with learning disabilities from a rural area of southern Brazil. *Int J Environ Res Public Health* 11(10):10806-10823. 10.3390/ijerph111010806.
- Dorsey CD, Lee B, Bolla KI, et al. 2006. Comparison of patella lead with blood lead and tibia lead and their associations with neurobehavioral test scores. *J Occup Environ Med* 48(5):489-496.
- Doyle JR, Blais JM, Holmes RD, et al. 2012. A soil ingestion pilot study of a population following a traditional lifestyle typical of rural or wilderness areas. *Sci Total Environ* 424:110-120. 10.1016/j.scitotenv.2012.02.043.
- Drasch G, Wanghofer E, Roider G. 1997. Are blood, urine, hair, and muscle valid biomarkers for the internal burden of men with the heavy metals mercury, lead and cadmium? An investigation on 150 deceased. *Trace Elem Electrolytes* 14(3):116-123.
- Drasch GA, Bohm J, Baur C. 1987. Lead in human bones. Investigations on an occupationally non-exposed population in southern Bavaria (F.R.G.) I. Adults. *Sci Total Environ* 64:303-315.
- Drexler JW, Brattin WJ. 2007. An *in vitro* procedure for estimation of lead relative bioavailability: With validation. *Hum Ecol Risk Assess* 13(2):383-401. 10.1080/10807030701226350.
- Dundar B, Öktem F, Arslan MK, et al. 2006. The effect of long-term low-dose lead exposure on thyroid function in adolescents. *Environ Res* 101(1):140-145. 10.1016/j.envres.2005.10.002.
- DuVal GE, Fowler BA. 1989. Preliminary purification and characterization studies of a low molecular weight, high affinity cytosolic lead-binding protein in rat brain. *Biochem Biophys Res Commun* 159:177-184.
- Duydu Y, Dur A, Süzen HS. 2005. Evaluation of increased proportion of cells with unusually high sister chromatid exchange counts as a cytogenetic biomarker for lead exposure. *Biol Trace Elem Res* 104(2):121-129. 10.1385/BTER:104:2:121.
- Duydu Y, Süzen H, Aydin A, et al. 2001. Correlation between lead exposure indicators and sister chromatid exchange (SCE) frequencies in lymphocytes from inorganic lead exposed workers. *Arch Environ Contam Toxicol* 41(2):241-246.

## 8. REFERENCES

- Dye BA, Hirsch R, Brody DJ. 2002. The relationship between blood lead levels and periodontal bone loss in the United States, 1988-1994. *Environ Health Perspect* 110(10):997-1002.
- Eaton DL, Stacey NH, Wong KL, et al. 1980. Dose response effects of various metal ions on rat liver metallothionein, glutathione, heme oxygenase, and cytochrome P-450. *Toxicol Appl Pharmacol* 55:393-402.
- Eckel WP, Jacob TA. 1988. Ambient levels of 24 dissolved metals in U.S. surface and ground waters. *Prepr Pap Natl Meet Am Chem Soc Div Environ Chem* 28:371-372.
- Egeghy PP, Quackenboss JJ, Catlin S, et al. 2005. Determinants of temporal variability in NHEXAS-Maryland environmental concentrations, exposures, and biomarkers. *J Expo Anal Environ Epidemiol* 15(5):388-397. 10.1038/sj.jea.7500415.
- Ehrlich R, Robins T, Jordaan E, et al. 1998. Lead absorption and renal dysfunction in a South African battery factory. *Occup Environ Med* 55:453-460.
- Eisenreich SJ, Looney BB, Thornton JD. 1981. Airborne organic contaminants in the Great Lakes ecosystem. *Environ Sci Technol* 15(1):30-38.
- Eisler R. 1988. Lead hazards to fish, wildlife, and invertebrates: A synoptic review. U.S. Department of the Interior, Fish and Wildlife Service.
- Elbaz-Poulichet F, Holliger P, Huang WW, et al. 1984. Lead cycling in estuaries, illustrated by the Gironde estuary, France. *Nature* 308:409-414.
- Eldred RA, Cahill TA. 1994. Trends in elemental concentrations of fine particles at remote sites in the United States of America. *Atmos Environ* 28:1009-1019.
- Elias SM, Hashim Z, Marjam ZM, et al. 2007. Relationship between blood lead concentration and nutritional status among Malay primary school children in Kuala Lumpur, Malaysia. *Asia Pac J Public Health* 19:29-37.
- Ellenhorn MJ. 1997. Lead. In: *Ellenhorn's medical toxicology: Diagnosis and treatment of human poisoning*. Second ed. Baltimore, MD: Williams & Wilkins, 1563-1579.
- Elmarsafawy SF, Jain NB, Schwartz J, et al. 2006. Dietary calcium as a potential modifier of the relationship of lead burden to blood pressure. *Epidemiology* 17(5):531-537.
- Elwood PC, Davey-Smith G, Oldham PD, et al. 1988a. Two Welsh surveys of blood lead and blood pressure. *Environ Health Perspect* 78:119-121.
- Elwood PC, Yarnell JW, Oldham PD, et al. 1988b. Blood pressure and blood lead in surveys in Wales. *Am J Epidemiol* 127(5):942-945.
- Emory E, Ansari Z, Pattillo R, et al. 2003. Maternal blood lead effects on infant intelligence at age 7 months. *Am J Obstet Gynecol* 188(4):S26-S32.
- Englyst V, Lundstrom NG, Gerhardsson L, et al. 2001. Lung cancer risks among lead smelter workers also exposed to arsenic. *Sci Total Environ* 273:77-82.
- Environment and Climate Change Canada. 2016. Canadian environmental sustainability indicators: Releases of harmful substances to the environment. Minister of Environment and Climate Change. [http://www.ec.gc.ca/indicateurs-indicators/3C4C1124-63E6-40BB-941A-EB87E1A23387/Releases%20of%20Harmful%20Substances\\_EN.pdf](http://www.ec.gc.ca/indicateurs-indicators/3C4C1124-63E6-40BB-941A-EB87E1A23387/Releases%20of%20Harmful%20Substances_EN.pdf). June 26, 2017.
- EPA. 1977. 40 CFR 60; Subpart L. Code of Federal Regulations. U.S. Environmental Protection Agency.
- EPA. 1979. Lead water-related environmental fate of 129 priority pollutants. 13-11 - 13-19.
- EPA. 1982a. 40 CFR 60; Subpart KK. Code of Federal Regulations. U.S. Environmental Protection Agency.
- EPA. 1982b. 40 CFR 80.3. Code of Federal Regulations. U.S. Environmental Protection Agency.
- EPA. 1982c. An exposure and risk assessment for lead. Washington, DC: U.S. Environmental Protection Agency, Office of Water Regulations and Standards, Monitoring and Data Support Division. EPA440485010. PB85220606.
- EPA. 1985a. 40 CFR 80.20. Code of Federal Regulations. Washington, DC: U.S. Environmental Protection Agency.
- EPA. 1985b. Determination of reportable quantities. Fed Regist 40 CFR, 117.3

## 8. REFERENCES

- EPA. 1985c. Lead exposures in the human environment. Research Triangle Park, NC: U.S. Environmental Protection Agency, Environmental Criteria and Assessment Office. EPA600D86185. PB86241007.
- EPA. 1985d. Regulation of fuels and fuel additives; gasoline lead content. Fed Regist 50(45):9386-9399.
- EPA. 1986a. Air quality criteria for lead. Research Triangle Park, NC: U.S. Environmental Protection Agency, Office of Research and Development, Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office. EPA600883028F.
- EPA. 1986b. Superfund record of decision (EPA Region 5): Forest Waste Disposal Site, Genesee County, Michigan, June 1986. Washington, DC: U.S. Environmental Protection Agency. EPARODR0586034. PB87189890.
- EPA. 1988. Specific toxic chemical listings. Code of Federal Regulations. Washington, DC: U.S. Environmental Protection Agency. Vol. 40 CFR 372.65
- EPA. 1989c. Exposure factors handbook. Washington, DC: U.S. Environmental Protection Agency, Office of Health and Environmental Assessment. EPA600889043.
- EPA. 1989d. National primary drinking water regulations. Code of Federal Regulations. U.S. Environmental Protection Agency. 40 CFR 141.142
- EPA. 1989e. Supplement to the 1986 EPA Air Quality Criteria for Lead - Volume I Addendum.
- EPA. 1991a. Reference air concentrations. Health based limits for exclusion of waste-derived residues. Code of Federal Regulations. 40 CFR 266, Appendices IV and VII.
- EPA. 1991b. Maximum contaminant level goals and national primary drinking water regulations for lead and copper. U.S. Environmental Protection Agency. Fed Regist 56:26461-26564.
- EPA. 1994a. Guidance manual for the integrated exposure uptake biokinetic model for lead in children. U.S. Environmental Protection. EPA540R93081. PB93963510.
- EPA. 1994b. Technical support document: Parameters and equations used in integrated exposure uptake biokinetic model for lead in children (v0.99d). Washington, DC: U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. EPA540R94040. PB94963505.
- EPA. 1994c. Validation strategy for the integrated exposure uptake biokinetic model for lead in children. Washington, DC: U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. EPA540R94039. PB94963504.
- EPA. 1994d. Methods for the determination of metals in environmental samples. Supplement 1. Cincinnati, OH: U.S. Environmental Protection Agency, Office of Research and Development, Environmental Monitoring Systems Laboratory. EPA600R94111. <https://nepis.epa.gov/Exe/ZyPURL.cgi?Dockey=300036HL.txt>. March 30, 2017.
- EPA. 1994e. Revised interim soil lead guidance for CERCLA sites and RCRA corrective action facilities. Washington, DC: U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response.
- EPA. 1994f. Method 200.8, revision 5.4: Determination of trace elements in waters and wastes by inductively coupled plasma-mass spectrometry. Cincinnati, OH: U.S. Environmental Protection Agency. [https://www.epa.gov/sites/production/files/2015-08/documents/method\\_200-8\\_rev\\_5-4\\_1994.pdf](https://www.epa.gov/sites/production/files/2015-08/documents/method_200-8_rev_5-4_1994.pdf). December 8, 2017.
- EPA. 1995a. Guidance for assessing chemical contaminant data for use in fish advisories. Volume 1: Fish sampling and analysis.
- EPA. 1995b. Report on the national survey of lead based paint in housing - base report. U.S. Environmental Protection Agency.
- EPA. 1996a. Prohibition on gasoline containing lead or lead additives for highway use. U.S. Environmental Protection Agency. Fed Regist 61(23):3832.
- EPA. 1996b. National air quality and emissions trends report 1995. U.S. Environment Protection Agency.
- EPA. 1996c. Urban Soil Lead Abatement Demonstration Project. Volume I: EPA Integrated Report.

## 8. REFERENCES

- EPA. 1997. Methods for the determination of chemical substances in marine and estuarine environmental matrices- 2nd edition. Washington, DC: U.S. Environmental Protection Agency, Office of Research and Development. EPA600R97072. [https://cfpub.epa.gov/si/si\\_public\\_record\\_report.cfm?dirEntryId=309412](https://cfpub.epa.gov/si/si_public_record_report.cfm?dirEntryId=309412). March 30, 2017.
- EPA. 1997. Implementation of the mercury-containing and rechargeable battery management act. U.S. Environmental Protection Agency. <https://nepis.epa.gov/Exe/ZyPURL.cgi?Dockey=10000MXZ.txt>.
- EPA. 1998. Clarification to the 1994 revised interim soil lead guidance for CERCLA sites and RCRA corrective action facilities. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. EPA540F98030. <https://www.epa.gov/superfund/lead-superfund-sites-guidance>. August 25, 2017.
- EPA. 1999. Determination of metals in ambient particulate matter using X-ray fluorescence (XRF) spectroscopy. Compendium Method 10-3.3. Cincinnati, OH: U.S. Environmental Protection Agency, Office of Research and Development, Center for Environmental Research Information. EPA625R96010a. <https://www3.epa.gov/ttnamtl1/files/ambient/inorganic/mthd-3-3.pdf>. March 30, 2017.
- EPA. 2001. Lead and lead compounds. Guidance for reporting releases and other waste management quantities of toxic chemicals. Washington, DC: U.S. Environmental Protection Agency.
- EPA. 2002a. Reference manual for the Integrated Exposure Uptake Biokinetic Model for lead in children (IEUBK) Windows 32 bit version. U.S. Environmental Protection Agency. EPA9285744 <https://www.epa.gov/superfund/lead-superfund-sites-software-and-users-manuals#technical>.
- EPA. 2002b. The "battery act". Enforcement alert. U.S. Environmental Protection Agency. EPA300N02002.
- EPA. 2002c. National primary drinking water regulations. Washington, DC: U.S. Environmental Protection Agency, Office of Ground Water and Drinking Water. EPA816F02013. <http://www.epa.gov/safewater/mcl.html>.
- EPA. 2003. Method 200.5: Determination of trace elements in drinking water by axially viewed inductively coupled plasma- atomic emission spectrometry. Cincinnati, OH: U.S. Environmental Protection Agency, Office of Research and Development, National Exposure Research Laboratory. EPA600R06115. [https://www.epa.gov/sites/production/files/2015-08/documents/method\\_200-5\\_rev\\_4-2\\_2003.pdf](https://www.epa.gov/sites/production/files/2015-08/documents/method_200-5_rev_4-2_2003.pdf). March 30, 2017.
- EPA. 2005a. Toxic chemical release inventory reporting forms and instructions: Revised 2004 version. Section 313 of the Emergency Planning and Community Right-to-Know Act (Title III of the Superfund Amendments and Reauthorization Act of 1986). U.S. Environmental Protection Agency, Office of Environmental Information. EPA260B05001.
- EPA. 2005b. EPA STORET Database.
- EPA. 2005c. EPA national air quality monitoring system. Washington, DC: U.S. Environmental Protection Agency.
- EPA. 2006. Air quality criteria for lead. Volume 1 of II. U.S. Environmental Protection Agency. EPA600R5144aF. [http://ofmpub.epa.gov/eims/eimscomm.getfile?p\\_download\\_id=459555](http://ofmpub.epa.gov/eims/eimscomm.getfile?p_download_id=459555). June 27, 2017.
- EPA. 2007a. National primary drinking water regulations for lead and copper: Short-term regulatory revisions and clarifications. Fed Regist 72(195):57782-57820. <https://www.gpo.gov/fdsys/pkg/FR-2007-10-10/pdf/E7-19432.pdf>. June 28, 2017.
- EPA. 2007b. The national listing of fish advisories. Advisory report output. U.S. Environmental Protection Agency. <http://map1.epa.gov/>.
- EPA. 2009. National primary drinking water regulations. Washington, DC: Office of Ground Water and Drinking Water, U.S. Environmental Protection Agency. EPA 816-F-09-0004. [https://www.epa.gov/sites/production/files/2016-06/documents/npwdr\\_complete\\_table.pdf](https://www.epa.gov/sites/production/files/2016-06/documents/npwdr_complete_table.pdf). February 28, 2017.

## 8. REFERENCES

- EPA. 2012. Drinking water standards and health advisories. Washington, DC: U.S. Environmental Protection Agency, Office of Water. EPA 822S12001.  
<https://www.epa.gov/sites/production/files/2015-09/documents/dwstandards2012.pdf>. May 4, 2017.
- EPA. 2014a. Development and evaluation of the all ages lead model (AALM). U.S. Environmental Protection Agency.
- EPA. 2014b. Approach for estimating exposures and incremental health effects from lead due to renovation, repair, and painting activities in public and commercial buildings. U.S. Environmental Protection Agency. [https://www.epa.gov/sites/production/files/2014-08/documents/approachdocument\\_0.pdf](https://www.epa.gov/sites/production/files/2014-08/documents/approachdocument_0.pdf). April 03, 2017.
- EPA. 2014c. Integrated science assessment for lead. Contains errata sheet created 5/12/2014. EPA600R10075F. <https://cfpub.epa.gov/ncea/isa/recorddisplay.cfm?deid=255721>. October 21, 2016.
- EPA. 2014d. Lead and lead compounds. Chemical data access tool (CDAT). [2012 Chemical Data Reporting (CDR)]. U.S. Environmental Protection Agency.  
[https://java.epa.gov/oppt\\_chemical\\_search/](https://java.epa.gov/oppt_chemical_search/). June 26, 2017.
- EPA. 2015. Report on the environment. Lead emissions. <https://cfpub.epa.gov/roe/>. June 27, 2017.
- EPA. 2016a. Hazardous wastes from non-specific sources, Subpart D-Lists of hazardous waste. Code of Federal Regulations. U.S. Environmental Protection Agency. 40 CFR 261.31  
<https://www.gpo.gov/fdsys/pkg/CFR-2016-title40-vol28/pdf/CFR-2016-title40-vol28-part261-subpartD.pdf>. June 26, 2017.
- EPA. 2016b. Memorandum. Updated scientific considerations for lead in soil cleanups. U.S. Environmental Protection Agency. <https://assets.documentcloud.org/documents/3525442/EPA-Memo-Updated-Scientific-Considerations-for.pdf>. June 28, 2017.
- EPA. 2016c. 2014 National Emissions Inventory, version 1. Technical support document. Research Triangle Park, NC: U.S. Environmental Protection Agency.
- EPA. 2016d. Acute Exposure Guideline Levels (AEGs) Values. U.S. Environmental Protection Agency. <https://www.epa.gov/aegl/access-acute-exposure-guideline-levels-aegls-values#chemicals>. February 28, 2017.
- EPA. 2016e. Review of the National Ambient Air Quality Standards for lead. U.S. Environmental Protection Agency. Fed Regist 81(201):71906-71043. <https://www.gpo.gov/fdsys/pkg/FR-2016-10-18/pdf/2016-23153.pdf>. August 25, 2017.
- EPA. 2016f. Updated scientific considerations for lead in soil cleanups. U.S. Environmental Protection Agency, Office of Land and Emergency Management.  
<https://quicksilver.epa.gov/work/08/1884174.pdf>. August 25, 2017.
- EPA. 2017a. Lead air releases trend in the 2015 TRI national analysis. U.S. Environmental Protection Agency.
- EPA. 2017b. Supporting data files for the 2015 TRI national analysis: 2015 Toxics Release Inventory national analysis: Releases of chemicals: Lead air releases trend. U.S. Environmental Protection Agency.
- EPA. 2017c. TRI basic data files: Calendar years 1987-2015 [US data from 2015]. U.S. Environmental Protection Agency.
- EPA. 2017d. Transmittal of update to the adult lead methodology's default baseline blood lead concentration and geometric standard deviation parameters. OLEM Directive 9285-56. Washington, DC: U.S. Environmental Protection Agency.  
<https://semspub.epa.gov/work/HQ/196766.pdf>. August 25, 2017.
- Erenberg G, Rinsler SS, Fish BG. 1974. Lead neuropathy and sickle cell disease. *Pediatrics* 54:438-441.
- Erfurth EM, Gerhardsson L, Nilsson A, et al. 2001. Effects of lead on the endocrine system in lead smelter workers. *Arch Environ Health* 56(5):449-455.
- Ergurhan-Ilhan I, Cadir B, Koyuncu-Arslan M, et al. 2008. Level of oxidative stress and damage in erythrocytes in apprentices indirectly exposed to lead. *Pediatr Int* 50(1):45-50. 10.1111/j.1442-200X.2007.02442.x.

## 8. REFERENCES

- Erie JC, Good JA, Butz JA. 2009. Excess lead in the neural retina in age-related macular degeneration. *Am J Ophthalmol* 148(6):890-894. 10.1016/j.ajo.2009.07.001.
- Erkkila J, Armstrong R, Riihimaki V, et al. 1992. *In vivo* measurements of lead in bone at four anatomical sites: Long term occupational and consequent endogenous exposure. *Br J Ind Med* 49:631-644.
- Ernhart CB, Morrow-Tlucak M, Wolf AW, et al. 1989. Low level lead exposure in the prenatal and early preschool periods: Intelligence prior to school entry. *Neurotoxicol Teratol* 11(2):161-170.
- Esteban M, Castano A. 2009. Non-invasive matrices in human biomonitoring: A review. *Environ Int* 35:438-449.
- Esteban E, Rubin CH, Jones RL, et al. 1999. Hair and blood as substrates for screening children for lead poisoning. *Arch Environ Health* 54(6):436-440.
- Esteban-Vasallo MD, Aragonés N, Pollán M, et al. 2012. Mercury, cadmium, and lead levels in human placenta: A systematic review. *Environ Health Perspect* 120(10):1369-1377. 10.1289/ehp.1204952.
- Ethier AA, Muckle G, Bastien C, et al. 2012. Effects of environmental contaminant exposure on visual brain development: A prospective electrophysiological study in school-aged children. *Neurotoxicology* 33(5):1075-1085. 10.1016/j.neuro.2012.05.010.
- Ettinger AS, Lamadrid-Figueroa H, Tellez-Rojo MM, et al. 2009. Effect of calcium supplementation on blood lead levels in pregnancy: A randomized placebo-controlled trial. *Environ Health Perspect* 117(1):26-31.
- Ettinger AS, Roy A, Amarasiriwardena CJ, et al. 2014. Maternal blood, plasma, and breast milk lead: Lactational transfer and contribution to infant exposure. *Environ Health Perspect* 122(1):87-92. 10.1289/ehp.1307187.
- Ettinger AS, Tellez-Rojo MM, Amarasiriwardena C, et al. 2004. Levels of lead in breast milk and their relation to maternal blood and bone lead levels at one month postpartum. *Environ Health Perspect* 112:926-931.
- Ettinger AS, Tellez-Rojo MM, Amarasiriwardena C, et al. 2006. Influence of maternal bone lead burden and calcium intake on levels of lead in breast milk over the course of lactation. *Am J Epidemiol* 163(1):48-56.
- Eum KD, Nie LH, Schwartz J, et al. 2011. Prospective cohort study of lead exposure and electrocardiographic conduction disturbances in the Department of Veterans Affairs Normative Aging Study. *Environ Health Perspect* 119(7):490-494. 10.1289/ehp.1003279.
- Eum KD, Seals RM, Taylor KM, et al. 2015. Modification of the association between lead exposure and amyotrophic lateral sclerosis by iron and oxidative stress related gene polymorphisms. *Amyotroph Lateral SclerFrontotemporal Degener* 16(1-2):72-79. 10.3109/21678421.2014.964259.
- Eum KD, Wang FT, Schwartz J, et al. 2013. Modifying roles of glutathione S-transferase polymorphisms on the association between cumulative lead exposure and cognitive function. *Neurotoxicology* 39:65-71. 10.1016/j.neuro.2013.08.002.
- Eum KD, Weisskopf MG, Nie LH, et al. 2014. Cumulative lead exposure and age at menopause in the Nurses' Health Study cohort. *Environ Health Perspect* 122(3):229-234. 10.1289/ehp.1206399.
- Evans M, Elinder CG. 2011. Chronic renal failure from lead: Myth or evidence-based fact? *Kidney Int* 79(3):272-279. 10.1038/ki.2010.394.
- Evans RD, Rigler FH. 1985. Long distance transport of anthropogenic lead as measured by lake sediments. *Water Air Soil Pollut* 24:141-151.
- Evens A, Hryhorczuk D, Lanphear BP, et al. 2015. The impact of low-level lead toxicity on school performance among children in the Chicago public schools: A population-based retrospective cohort study. *Environ Health* 14:21. 10.1186/s12940-015-0008-9.
- Ewers U, Stiller-Winkler R, Idel H. 1982. Serum immunoglobulin, complement C3, and salivary IgA levels in lead workers. *Environ Res* 29(2):351-357. 10.1016/0013-9351(82)90036-6.

## 8. REFERENCES

- Factor-Litvak P, Graziano JH, Kline JK, et al. 1991. A prospective study of birthweight and length of gestation in a population surrounding a lead smelter in Kosovo, Yugoslavia. *Int J Epidemiol* 20:722-728.
- Factor-Litvak P, Kline JK, Popovac D, et al. 1996. Blood lead and blood pressure in young children. *Epidemiology* 7(6):633-637. 10.1097/00001648-199611000-00012.
- Factor-Litvak P, Slavkovich V, Liu X, et al. 1998. Hyperproduction of erythropoietin in nonanemic lead-exposed children. *Environ Health Perspect* 106(6):361-364.
- Factor-Litvak P, Wasserman G, Kline JK, et al. 1999. The Yugoslavia prospective study of environmental lead exposure. *Environ Health Perspect* 107(1):9-15.
- Fadrowski JJ, Navas-Acien A, Tellez-Plaza M, et al. 2010. Blood lead level and kidney function in US adolescents: The Third National Health and Nutrition Examination Survey. *Arch Intern Med* 170(1):75-82. 10.1001/archinternmed.2009.417.
- Fan G, Du G, Li H, et al. 2014. The effect of the hemochromatosis (HFE) genotype on lead load and iron metabolism among lead smelter workers. *PLoS ONE* 9(7):e101537. 10.1371/journal.pone.0101537.
- Fang F, Kwee LC, Allen KD, et al. 2010. Association between blood lead and the risk of amyotrophic lateral sclerosis. *Am J Epidemiol* 171(10):1126-1133. 10.1093/aje/kwq06.
- Fanning D. 1988. A mortality study of lead workers, 1926-1985. *Arch Environ Health* 43(3):247-251.
- Faramawi MF, Delongchamp R, Lin YS, et al. 2015. Environmental lead exposure is associated with visit-to-visit systolic blood pressure variability in the US adults. *Int Arch Occup Environ Health* 88(3):381-388. 10.1007/s00420-014-0970-5.
- Farhat A, Mohammadzadeh A, Balali-Mood M, et al. 2013. Correlation of blood lead level in mothers and exclusively breastfed infants: A study on infants aged less than six months. *Asia Pac J Med Toxicol* 2:150-152.
- Farias P, Echavarria M, Hernandez-Avila M, et al. 2005. Bone, blood and semen lead in men with environmental and moderate occupational exposure. *Int J Environ Health Res* 15(1):21-31.
- Fayerweather WE, Karns ME, Nuwayhid IA, et al. 1997. Case-control study of cancer risk in tetraethyl lead manufacturing. *Am J Ind Med* 31:28-35.
- Fazli D, Malekirad AA, Mirzaee M, et al. 2014. Study on the link between lead exposure and hematological, psychological, and memorial parameters in automobile repair workers. *Sci Res* 6:712-719.
- FDA. 2006. Supporting document for recommended maximum level for lead in candy likely to be consumed frequently by small children. U.S. Food and Drug Administration. <https://www.fda.gov/food/foodborneillnesscontaminants/metals/ucm172050.htm>. June 28, 2017.
- FDA. 2013. Everything added to food in the United States (EAFUS). Washington, DC: U.S. Food and Drug Administration. <http://www.accessdata.fda.gov/scripts/fcn/fcnavigation.cfm?rpt=eafuslisting>. February 28, 2017.
- FDA. 2016a. Lead and cadmium in foods. Combination metals testing. U.S. Food and Drug Administration. <https://www.fda.gov/Food/FoodborneIllnessContaminants/Metals/ucm521427.htm>. March 23, 2017.
- FDA. 2016b. Total diet study elements results- summary statistics. Market baskets 2006 through 2011. U.S. Food and Drug Administration. March 23, 2017.
- Fears TR, Elashoff RM, Schneiderman MA. 1989. The statistical analysis of a carcinogen mixture experiment. III. Carcinogens with different target systems, aflatoxin B1, n-butyl-N(4-hydroxybutyl)nitrosamine, lead acetate, and thiouracil. *Toxicol Ind Health* 5(1):1-23.
- Feldhake CJ, Stevens CD. 1963. The solubility of tetraethyllead in water. *J Chem Eng Data* 8(2):196-197. 10.1021/je60017a016.
- Fels LM, Wunsch M, Baranowski J, et al. 1998. Adverse effects of chronic low level lead exposure on kidney function - a risk group study in children. *Nephrol Dial Transplant* 13:2248-2256.

## 8. REFERENCES

- Fergusson DM, Horwood LJ, Lynskey MT. 1993. Early dentine lead levels and subsequent cognitive and behavioural development. *J Child Psychol Psychiatry* 34(2):215-227. 10.1111/j.1469-7610.1993.tb00980.x.
- Fernandes KC, Martins AC, Jr., Oliveira AA, et al. 2016. Polymorphism of metallothionein 2A modifies lead body burden in workers chronically exposed to the metal. *Publ Health Genom* 19(1):47-52. 10.1159/000441713.
- Finster ME, Gray KA, Binns HJ. 2004. Lead levels of edibles grown in contaminated residential soils: A field survey. *Sci Total Environ* 320(2):245-257.
- Fischbein A, Anderson KE, Sassa S, et al. 1981. Lead poisoning from "Do-It-Yourself" heat guns for removing lead-based paint: Report of two cases. *Environ Res* 24:425-431.
- Fischbein A, Tsang P, Luo JCJ, et al. 1993. Phenotypic aberrations of CD3+ and CD4+ cells and functional impairments of lymphocytes at low-level occupational exposure to lead. *Clin Immunol Immunopathol* 66(2):163-168.
- Fitchko J, Hutchinson TC. 1975. A comparative study of heavy metal concentrations in river mouth sediments around the Great Lakes. *J Great Lakes Res* 1:46-78.
- Flanagan PR, Hamilton DL, Haist J, et al. 1979. Interrelationships between iron and lead absorption in iron-deficient mice. *Gastroenterology* 77:1074-1081.
- Flegal AR, Smith DR. 1995. Measurements of environmental lead contamination and human exposure. *Rev Environ Contam Toxicol* 143:1-45.
- Fleisch AF, Burns JS, Williams PL, et al. 2013. Blood lead levels and serum insulin-like growth factor 1 concentrations in peripubertal boys. *Environ Health Perspect* 121(7):854-858. 10.1289/ehp.1206105.
- Fleming D, Boulay D, Richard NS, et al. 1997. Accumulated body burden and endogenous release of lead in employees of a lead smelter. *Environ Health Perspect* 105(2):224-233.
- Fleming DEB, Chettle DR, Wetmur JG, et al. 1998b. Effect of the  $\delta$ -aminolevulinate dehydratase polymorphism on the accumulation of lead in bone and blood in lead smelter workers. *Environ Res* 77:49-61.
- Fleming MD, Romano MA, Su MA, et al. 1998a. Nramp2 is mutated in the anemic Belgrade (b) rat: Evidence of a role for Nramp2 in endosomal iron transport. *Proc Natl Acad Sci* 95(3):1148-1153.
- Flora G, Gupta D, Tiwari A. 2012. Toxicity of lead: A review with recent updates. *Interdiscip Toxicol* 5(2):47-58. 10.2478/v10102-012-0009-2.
- Forbes GB, Reina JC. 1972. Effect of age on gastrointestinal absorption (Fe, Sr, Pb) in the rat. *J Nutr* 102:647-652.
- Forni A, Cambiaghi G, Secchi GC. 1976. Initial occupational exposure to lead. Chromosome and biochemical findings. *Arch Environ Health* 31:73-78.
- Foster P, Gray LE. Chapter 20. Toxic responses of the reproductive system. In: Klaassen CD, ed. Casarett and Doull's toxicology. The basic science of poisons. New York, NY: The McGraw-Hill Companies, Inc., 761-806.
- Fowler B. 1989. Biological roles of high affinity metal-binding proteins in mediating cell injury. *Comm Toxicol* 3:27-46.
- Fowler BA, DuVal G. 1991. Effects of lead on the kidney: Roles of high-affinity lead-binding proteins. *Environ Health Perspect* 91:77-80.
- Fracasso ME, Perbellini L, Soldà S, et al. 2002. Lead induced DNA strand breaks in lymphocytes of exposed workers: Role of reactive oxygen species and protein kinase C. *Mutat Res Genet Toxicol Environ Mutagen* 515(1):159-169.
- Franklin CA, Inskip MJ, Baccanale CL, et al. 1997. Use of sequentially administered stable lead isotopes to investigate changes in blood lead during pregnancy in a nonhuman primate (*Macaca fascicularis*). *Fundam Appl Toxicol* 39:109-119.
- Fraser S, Muckle G, Despres C. 2006. The relationship between lead exposure, motor function and behaviour in Inuit preschool children. *Neurotoxicol Teratol* 28(1):18-27. 10.1016/j.ntt.2005.10.008.



## 8. REFERENCES

- Freeman GB, Dill JA, Johnson JD, et al. 1996. Comparative absorption of lead from contaminated soil and lead salts by weanling Fischer 344 rats. *Fundam Appl Toxicol* 33:109-119.
- Freeman GB, Johnson JD, Killinger JM, et al. 1992. Relative bioavailability of lead from mining waste soil in rats. *Fundam Appl Toxicol* 19(3):388-398.
- Freeman GB, Johnson JD, Liao SC, et al. 1994. Absolute bioavailability of lead acetate and mining waste lead in rats. *Toxicology* 91:151-163.
- Frisancho AR, Ryan AS. 1991. Decreased stature associated with moderate blood lead concentrations in Mexican-American children. *Am J Clin Nutr* 54:516-519.
- Froehlich TE, Lanphear BP, Auinger P, et al. 2009. Association of tobacco and lead exposures with attention-deficit/hyperactivity disorder. *Pediatrics* 124(6):E1054-E1063. 10.1542/peds.2009-0738.
- Froehlich TE, Lanphear BP, Dietrich KN, et al. 2007. Interactive effects of a DRD4 polymorphism, lead and sex on executive functions in children. *Biol Psychiatry* 62(3):243-249. 10.1016/j.biopsych.2006.09.039.
- Froom P, Kristal-Boneh E, Benbassat J, et al. 1998. Predictive value of determinations of zinc protoporphyrin for increased blood lead concentrations. *Clin Chem* 44(6):1283-1288.
- Fujita H, Sato K, Sano S. 1982. Increase in the amount of erythrocyte  $\delta$ -aminolevulinic acid dehydratase in workers with moderate lead exposure. *Int Arch Occup Environ Health* 50:287-297.
- Fukui Y, Miki M, Ukai H, et al. 1999. Urinary lead as a possible surrogate of blood lead among workers occupationally exposed to lead. *Int Arch Occup Environ Health* 72(8):516-520.
- Fukumoto K, Karai I, Horiguchi S. 1983. Effect of lead on erythrocyte membranes. *Br J Ind Med* 40:220-223.
- Fullmer CS, Rosen JF. 1990. Effect of dietary calcium and lead status on intestinal calcium absorption. *Environ Res* 51:91-99.
- Gale NL, Adams CD, Wixson BG, et al. 2002. Lead concentrations in fish and river sediments in the old lead belt of Missouri. *Environ Sci Technol* 36:4262-4268.
- Gale NL, Adams CD, Wixson BG, et al. 2004. Lead, zinc, copper, and cadmium in fish and sediments from the Big River and Flat River Creek of Missouri's old lead belt. *Environ Geochem Health* 26:37-49.
- Gao A, Lu XT, Li QY, et al. 2010. Effect of the  $\delta$ -aminolevulinic acid dehydratase gene polymorphism on renal and neurobehavioral function in workers exposed to lead in China. *Sci Total Environ* 408(19):4052-4055. 10.1016/j.scitotenv.2010.04.024.
- Gao K, Pearce J, Jones J, et al. 1999. Interaction between peat, humic acid and aqueous metal ions. *Environ Geochem Health* 21(1):13-26.
- Garavan C, Breen J, Moles R, et al. 2008. A case study of the health impacts in an abandoned lead mining area, using children's blood lead levels. *Int J Min Reclam Environ* 22(4):265-284.
- Garcia-Esquinas E, Aragonés N, Fernández MA, et al. 2014. Newborns and low to moderate prenatal environmental lead exposure: Might fathers be the key? *Environ Sci Pollut Res Int* 21(13):7886-7898. 10.1007/s11356-014-2738-6.
- Garcia-Leston J, Mendez J, Pasaro E, et al. 2010. Genotoxic effects of lead: An updated review. *Environ Int* 36(6):623-636. 10.1016/j.envint.2010.04.011.
- García-Lestón J, Roma-Torres J, Vilares M, et al. 2011. Biomonitoring of a population of Portuguese workers exposed to lead. *Mutat Res* 721(1):81-88. 10.1016/j.mrgentox.2011.01.001.
- Garçon G, Leleu B, Marez T, et al. 2007. Biomonitoring of the adverse effects induced by the chronic exposure to lead and cadmium on kidney function: Usefulness of  $\alpha$ -glutathione S-transferase. *Sci Total Environ* 377(2-3):165-172. 10.1016/j.scitotenv.2007.02.002.
- Garrido Latorre F, Hernandez-Avila M, Orozco JT, et al. 2003. Relationship of blood and bone lead to menopause and bone mineral density among middle-age women in Mexico City. *Environ Health Perspect* 111(4):631-636.
- Gartside PS. 1988. The relationship of blood lead levels and blood pressure in NHANES II: Additional calculations. *Environ Health Perspect* 78:31-34.

## 8. REFERENCES

- Garvey GJ, Hahn G, Lee RV, et al. 2001. Heavy metal hazards of Asian traditional remedies. *Int J Environ Health Res* 11(1):63-71.
- Ge Y, Murray P, Hendershot W. 2000. Trace metal speciation and bioavailability in urban soils. *Environ Pollut* 107(1):137-144.
- Gemmel A, Tavares M, Alperin S, et al. 2002. Blood lead level and dental caries in school-age children. *Environ Health Perspect* 110(10):A625-A630.
- Gennart JP, Bernard A, Lauwerys R. 1992a. Assessment of thyroid, testes, kidney and autonomic nervous system function in lead-exposed workers. *Int Arch Occup Environ Health* 64:49-57.
- Genuis SJ, Birkholz D, Rodushkin I, et al. 2011. Blood, urine, and sweat (BUS) study: Monitoring and elimination of bioaccumulated toxic elements. *Arch Environ Contam Toxicol* 61(2):344-357. 10.1007/s00244-010-9611-5.
- Gercken B, Barnes RM. 1991. Determination of lead and other trace element species in blood by size exclusion chromatography and inductively coupled plasma/mass spectrometry. *Anal Chem* 63:283-287.
- Gerhardsson L, Attewell R, Chettle DR, et al. 1993. *In vivo* measurements of lead in bone in long-term exposed lead smelter workers. *Arch Environ Health* 48(3):147-156. 10.1080/00039896.1993.9940813.
- Gerhardsson L, Brune D, Nordberg GF, et al. 1986a. Distribution of cadmium, lead and zinc in lung, liver and kidney in long-term exposed smelter workers. *Sci Total Environ* 50:65-85.
- Gerhardsson L, Chettle D, Englyst V, et al. 1992. Kidney effects in long term exposed lead smelter workers. *Br J Ind Med* 49(3):186-192.
- Gerhardsson L, Englyst V, Lundstrom NG, et al. 1995b. Lead in tissues of deceased lead smelter worker. *J Trace Elem Med Biol* 9:136-143.
- Gerhardsson L, Hagmar L, Rylander L, et al. 1995a. Mortality and cancer incidence among secondary lead smelter workers. *Occup Environ Med* 52:667-672.
- Gerhardt RE, Crecelius EA, Hudson JB. 1980. Trace element content of moonshine. *Arch Environ Health* 35:332-334.
- Gerr F, Letz R, Stokes L, et al. 2002. Association between bone lead concentration and blood pressure among young adults. *Am J Ind Med* 42:98-106.
- Gersberg RM, Gaynor K, Tenczar D, et al. 1997. Quantitative modeling of lead exposure from glazed ceramic pottery in childhood lead poisoning cases. *Int J Environ Health Res* 7:193-202.
- Ghiasvand M, Aghakhani K, Salimi A, et al. 2013. Ischemic heart disease risk factors in lead exposed workers: Research study. *J Occup Med Toxicol* 8:11. 10.1186/1745-6673-8-11.
- Gibbs PNB, Gore MG, Jordan PM. 1985. Investigation of the effect of metal ions on the reactivity of thiol groups in human 5-aminolaevulinic acid dehydratase. *Biochem J* 225:573-580.
- Giddings JC. 1973. Chemistry, man, and environmental change. An integrated approach. New York, NY: Canfield Press, 351-353.
- Gilbert M, Lasley SM. 2002. Long-term consequences of developmental exposure to lead or polychlorinated biphenyls: Synaptic transmission and plasticity in the rodent CNS. *Environ Toxicol Pharmacol* 12(2):105-117.
- Glass TA, Bandeen-Roche K, McAtee M, et al. 2009. Neighborhood psychosocial hazards and the association of cumulative lead dose with cognitive function in older adults. *Am J Epidemiol* 169(6):683-692. 10.1093/aje/kwn390.
- Glenn BS, Bandeen-Roche K, Lee BK, et al. 2006. Changes in systolic blood pressure associated with lead in blood and bone. *Epidemiology* 17(5):538-544. 10.1097/01.ede.0000231284.19078.4b.
- Glenn BS, Stewart WF, Links JM, et al. 2003. The longitudinal association of lead with blood pressure. *Epidemiology* 14(1):30-36.
- Goering PL, Fowler BA. 1987. Metal constitution of metallothionein influences inhibition of  $\delta$ -aminolaevulinic acid dehydratase (porphobilinogen synthase) by lead. *Biochem J* 245(2):339-345.
- Goldberg RL, Hicks AM, O'Leary LM, et al. 1991. Lead exposure at uncovered outdoor firing ranges. *J Occup Med* 33(6):718-719.

## 8. REFERENCES

- Gollenberg AL, Hediger ML, Lee PA, et al. 2010. Association between lead and cadmium and reproductive hormones in peripubertal U.S. girls. *Environ Health Perspect* 118(12):1782-1787. 10.1289/ehp.1001943.
- Golub NI, Winters PC, van Wijngaarden E. 2010. A population-based study of blood lead levels in relation to depression in the United States. *Int Arch Occup Environ Health* 83(7):771-777.
- Gomaa A, Howard H, Bellinger D, et al. 2002. Maternal bone lead as an independent risk factor for fetal neurotoxicity: A prospective study. *Pediatrics* 110(1):110-118.
- Gonick HC. 2011. Lead-binding proteins: A review. *J Toxicol* 2011:686050. 10.1155/2011/686050.
- Gonzalez-Cossio T, Peterson KE, Sanin L, et al. 1997. Decrease in birth weight in relation to maternal bone-lead burden. *Pediatrics* 100(5):856-862.
- Goodman M, LaVerda N, Clarke C, et al. 2002. Neurobehavioural testing in workers occupationally exposed to lead: Systematic review and meta-analysis of publications. *Occup Environ Med* 59(4):217-223.
- Goodrum PE, Diamond GL, Hassett JM, et al. 1996. Monte Carlo modeling of childhood lead exposure: Development of a probabilistic methodology for use with the USEPA IEUBK model for lead in children. *Hum Ecol Risk Assess* 2(4):681-708.
- Goyer RA. 1989. Mechanisms of lead and cadmium nephrotoxicity. *Toxicol Lett* 46:153-162.
- Goyer RA. 1990. Transplacental transport of lead. *Environ Health Perspect* 89:101-105.
- Goyer RA, Leonard DL, Moore JF, et al. 1970a. Lead dosage and the role of the intranuclear inclusion body: An experimental study. *Arch Environ Health* 20:705-711.
- Goyer RA, May P, Cates MM, et al. 1970b. Lead and protein content of isolated intranuclear inclusion bodies from kidneys of lead-poisoned rats. *Lab Invest* 22(3):245-251.
- Grabo TN. 1997. Unknown toxic exposures: Arts and crafts materials. *AAOHN J* 45(3):124-130.
- Grandjean P. 1979. Occupational lead exposure in Denmark: Screening with the haematofluorometer. *Br J Ind Med* 36:52-58.
- Grandjean P, Bach E. 1986. Indirect exposures: The significance of bystanders at work and at home. *Am Ind Hyg Assoc J* 47(12):819-824.
- Grandjean P, Lintrup J. 1978. Erythrocyte-Zn-protoporphyrin as an indicator of lead exposure. *Scand J Clin Lab Invest* 38:669-675.
- Grandjean P, Hollnagel H, Hedegaard L, et al. 1989. Blood lead-blood pressure relations: Alcohol intake and hemoglobin as confounders. *Am J Epidemiol* 129(4):732-739.
- Grandjean P, Jorgensen PJ, Viskum S. 1991. Temporal and interindividual variation in erythrocyte-zinc-protoporphyrin in lead exposed workers. *Br J Ind Med* 48:254-257.
- Grandjean P, Wulf HC, Niebuhr E. 1983. Sister chromatid exchange in response to variations in occupational lead exposure. *Environ Res* 32(1):199-204.
- Grashow R, Miller MW, McKinney A, et al. 2013a. Lead exposure and fear-potentiated startle in the VA Normative Aging Study: A pilot study of a novel physiological approach to investigating neurotoxicant effects. *Neurotoxicol Teratol* 38:21-28. 10.1016/j.ntt.2013.04.003.
- Grashow R, Sparrow D, Hu H, et al. 2015. Cumulative lead exposure is associated with reduced olfactory recognition performance in elderly men: The Normative Aging Study. *Neurotoxicology* 49:158-164. 10.1016/j.neuro.2015.06.006.
- Grashow R, Spiro A, Taylor KM, et al. 2013b. Cumulative lead exposure in community-dwelling adults and fine motor function: Comparing standard and novel tasks in the VA Normative Aging Study. *Neurotoxicology* 35:154-161. 10.1016/j.neuro.2013.01.005.
- Graziano J, Slavkovich V, Liu X, et al. 2004. A prospective study of prenatal and childhood lead exposure and erythropoietin production. *J Occup Environ Med* 46(9):924-929.
- Graziano JH. 1994. Validity of lead exposure markers in diagnosis and surveillance. *Clin Chem* 40(7):1387-1390.
- Graziano JH, Blum C. 1991. Lead exposure from lead crystal. *Lancet* 337:141-142.

## 8. REFERENCES

- Graziano JH, Popovac D, Factor-Litvak P, et al. 1990. Determinants of elevated blood lead during pregnancy in a population surrounding a lead smelter in Kosovo, Yugoslavia. *Environ Health Perspect* 89:95-100.
- Greenberg M, Hamilton R. 1999. Lack of blood lead elevations in police officers following small arms qualification on an indoor range. *J Toxicol Clin Toxicol* 37(5):627.
- Griffin S, Goodrum PE, Diamond GL, et al. 1999. Application of a probabilistic risk assessment methodology to a lead smelter site. *Hum Ecol Risk Assess* 5(4):845-868.
- Griffin TB, Coulston F, Wills H. 1975. Biological and clinical effects of continuous exposure to airborne particulate lead. *Arh Hig Rada Toksikol* 26:191-208.
- Gross M, Kumar R. 1990. Physiology and biochemistry of vitamin D-dependent calcium binding proteins. *Am J Physiol* 259:F195-F209.
- Gross SB, Pfitzer EA, Yeager DW, et al. 1975. Lead in human tissues. *Toxicol Appl Pharmacol* 32:638-651.
- Grover P, Rekhadevi PV, Danadevi K, et al. 2010. Genotoxicity evaluation in workers occupationally exposed to lead. *Int J Hyg Environ Health* 213(2):99-106. 10.1016/j.ijheh.2010.01.005.
- Guibaud G, Tixier N, Bouju A, et al. 2003. Relation between extracellular polymers' composition and its ability to complex Cd, Cu and Pb. *Chemosphere* 52(10):1701-1710.
- Gulson B, Korsch M, Matison M, et al. 2009. Windblown lead carbonate as the main source of lead in blood of children from a seaside community: An example of local birds as "canaries in the mine". *Environ Health Perspect* 117(1):148-154. 10.1289/ehp.11577.
- Gulson B, Mizon K, Korsch M, et al. 2016. Revisiting mobilisation of skeletal lead during pregnancy based on monthly sampling and cord/maternal blood lead relationships confirm placental transfer of lead. *Arch Toxicol* 90(4):805-816. 10.1007/s00204-015-1515-8.
- Gulson B, Mizon K, Taylor A, et al. 2008. Longitudinal monitoring of selected elements in blood of healthy young children. *J Trace Elem Med Biol* 22(3):206-214. 10.1016/j.jtemb.2008.04.001.
- Gulson BL, Gray B, Mahaffey KR, et al. 1999a. Comparison of the rates of exchange of lead in the blood of newly born infants and their mothers with lead from their current environment. *J Lab Clin Med* 133(2):171-178.
- Gulson BL, James M, Giblin AM, et al. 1997a. Maintenance of elevated lead levels in drinking water from occasional use and potential impact on blood leads in children. *Sci Total Environ* 205:271-275.
- Gulson BL, Jameson CW, Mahaffey KR, et al. 1997b. Pregnancy increases mobilization of lead from maternal skeleton. *J Lab Clin Med* 130:51-62.
- Gulson BL, Jameson CW, Mahaffey KR, et al. 1998a. Relationships of lead in breast milk to lead in blood, urine, and diet of the infant and mother. *Environ Health Perspect* 106(10):667-674.
- Gulson BL, Mahaffey KR, Jameson CW, et al. 1998b. Mobilization of lead from the skeleton during the postnatal period is larger than during pregnancy. *J Lab Clin Med* 131:324-329.
- Gulson BL, Mahaffey KR, Jameson CW, et al. 1999c. Impact of diet on lead in blood and urine in female adults and relevance to mobilization of lead from bone stores. *Environ Health Perspect* 107(4):257-263.
- Gulson BL, Mizon KJ, Korsch MJ, et al. 2003. Mobilization of lead from human bone tissue during pregnancy and lactation - a summary of long-term research. *Sci Total Environ* 303:79-104.
- Gulson BL, Mizon KJ, Palmer JM, et al. 2004. Blood lead changes during pregnancy and postpartum with calcium supplementation. *Environ Health Perspect* 112(15):1499-1507.
- Gulson BL, Palmer JM, Bryce A. 2002. Changes in blood lead of a recreational shooter. *Sci Total Environ* 293(1):143-150.
- Gulson BL, Pounds JG, Mushak P, et al. 1999b. Estimation of cumulative lead releases (lead flux) from the maternal skeleton during pregnancy and lactation. *J Lab Clin Med* 134(6):631-640.
- Gump BB, Mackenzie JA, Bendinskas K, et al. 2011. Low-level Pb and cardiovascular responses to acute stress in children: The role of cardiac autonomic regulation. *Neurotoxicol Teratol* 33(2):212-219. 10.1016/j.ntt.2010.10.001.

## 8. REFERENCES

- Gump BB, Stewart P, Reihman J, et al. 2005. Prenatal and early childhood blood lead levels and cardiovascular functioning in 9 1/2 year old children. *Neurotoxicol Teratol* 27(4):655-665. 10.1016/j.ntt.2005.04.002.
- Gump BB, Stewart P, Reihman J, et al. 2008. Low-level prenatal and postnatal blood lead exposure and adrenocortical responses to acute stress in children. *Environ Health Perspect* 116(2):249-255. 10.1289/ehp.10391.
- Gundacker C, Fröhlich S, Graf-Rohrmeister K, et al. 2010. Perinatal lead and mercury exposure in Austria. *Sci Total Environ* 408(23):5744-5749. 10.1016/j.scitotenv.2010.07.079.
- Gundacker C, Wittmann KJ, Kukuckova M, et al. 2009. Genetic background of lead and mercury metabolism in a group of medical students in Austria. *Environ Res* 109:786-796.
- Guo M, He L, Strong PJ, et al. 2014. Binding between lead ions and the high-abundance serum proteins. *Chemosphere* 112:472-480. 10.1016/j.chemosphere.2014.05.018.
- Gurer-Orhan H, Sabır HU, Özgüneş H. 2004. Correlation between clinical indicators of lead poisoning and oxidative stress parameters in controls and lead-exposed workers. *Toxicology* 195(2):147-154.
- Gustafson A, Hedner P, Schutz A, et al. 1989. Occupational lead exposure and pituitary function. *Int Arch Occup Environ Health* 61:277-281.
- Guyette RP, Cutter BE, Henderson GS. 1991. Long-term correlations between mining activity and levels of lead and cadmium in tree-rings of eastern red-cedar. *J Environ Qual* 20(1):146-150.
- Haenninen H, Hernberg S, Mantere P, et al. 1978. Psychological performance of subjects with low exposure to lead. *J Occup Med* 20(10):683-689.
- Haley VB, Talbot TO. 2004. Seasonality and trend in blood lead levels of New York State children. *BMC pediatrics* 4(1):8.
- Hamurcu Z, Donmez H, Saraymen R, et al. 2001. Micronucleus frequency in human lymphocyte exposed to occupational lead, zinc, and cadmium. *Biol Trace Elem Res* 83(2):97-102.
- Hanna CW, Bloom MS, Robinson WP, et al. 2012. DNA methylation changes in whole blood is associated with exposure to the environmental contaminants, mercury, lead, cadmium and bisphenol A, in women undergoing ovarian stimulation for IVF. *Hum Reprod* 27(5):1401-1410. 10.1093/humrep/des038.
- Hanna-Attisha M, LaChance J, Sadler RC, et al. 2016. Elevated blood lead levels in children associated with the Flint drinking water crisis: A spatial analysis of risk and public health response. *Am J Public Health* 106(2):283-290. 10.2105/ajph.2015.303003.
- Hanninen H, Aitio A, Kovala T, et al. 1998. Occupational exposure to lead and neuropsychological dysfunction. *Occup Environ Med* 55:202-209.
- Hansen S, Nieboer E, Sandanger TM, et al. 2011. Changes in maternal blood concentrations of selected essential and toxic elements during and after pregnancy. *J Environ Monit* 13(8):2143-2152. 10.1039/c1em10051c.
- Hardison DWJ, Ma LQ, Luongo T, et al. 2004. Lead contamination in shooting range soils from abrasion of lead bullets and subsequent weathering. *Sci Total Environ* 328:175-183. 10.1016/j.scitotenv.2003.12.013.
- Harlan WR. 1988. The relationship of blood lead levels to blood pressure in the U.S. population. *Environ Health Perspect* 78:9-13.
- Harlan WR, Landis JR, Schmouder RL, et al. 1985. Blood lead and blood pressure. Relationship in the adolescent and adult US population. *J Am Med Assoc* 253:530-534.
- Harville EW, Hertz-Picciotto I, Schramm M, et al. 2005. Factors influencing the difference between maternal and cord blood lead. *Occup Environ Med* 62(4):263-269.
- Hashimoto Y. 2013. Field and laboratory assessments on dissolution and fractionation of Pb from spent and unspent shots in the rhizosphere soil. *Chemosphere* 93(11):2894-2900. 10.1016/j.chemosphere.2013.08.095.
- Hauser R, Sergeyev O, Korrick S, et al. 2008. Association of blood lead levels with onset of puberty in Russian boys. *Environ Health Perspect* 116(7):976-980. 10.1289/ehp.10516.

## 8. REFERENCES

- Havlena J, Kanarek MS, Coons M. 2009. Factors associated with the seasonality of blood lead levels among preschool Wisconsin children. *WMJ* 108(3):151-155.
- Hayes EB, McElvaine MD, Orbach HG, et al. 1994. Long-term trends in blood lead levels among children in Chicago: Relationship to air lead levels. *Pediatrics* 93(2):195-200.
- Haynes EN, Kalkwarf HJ, Hornung R, et al. 2003. Vitamin D receptor *FokI* polymorphism and blood lead concentration in children. *Environ Health Perspect* 111:1665-1669.
- Haynes WM. 2014. Lead. In: *CRC handbook of chemistry and physics*. Ninety-fifth ed. Boca Raton, FL: CRC Press, 4-20.
- Healey N, Chettle DR, McNeill FE, et al. 2008. Uncertainties in the relationship between tibia lead and cumulative blood lead index. *Environ Health Perspect* 116(3):A109; author reply A109-110. 10.1289/ehp.10778.
- Healy MA, Harrison PG, Aslam M, et al. 1982. Lead sulphide and traditional preparations: Routes for ingestion, and solubility and reactions in gastric fluid. *J Clin Hosp Pharm* 7:169-173.
- Heard MJ, Chamberlain AC. 1982. Effect of minerals and food on uptake of lead from the gastrointestinal tract in humans. *Hum Toxicol* 1:411-415.
- Heard MJ, Wells AC, Newton D, et al. 1979. Human uptake and metabolism of tetra ethyl and tetra methyl lead vapour labelled with <sup>203</sup>Pb. *International Conference on Management and Control of Heavy Metals in the Environment*, 103-108.
- Hengstler JG, Bolm-Audorff U, Faldum A, et al. 2003. Occupational exposure to heavy metals: DNA damage induction and DNA repair inhibition prove co-exposures to cadmium, cobalt and lead as more dangerous than hitherto expected. *Carcinogenesis* 24(1):63-73.
- Hense HW, Filipiak B, Keil U. 1993. The association of blood lead and blood pressure in population surveys. *Epidemiology* 4:173-179.
- Heo Y, Lee BK, Ahn KD, et al. 2004. Serum IgE elevation correlates with blood lead levels in battery manufacturing workers. *Hum Exp Toxicol* 23(5):209-213. 10.1191/0960327104ht442oa.
- Hernandez-Avila M, Gonzalez-Cossio T, Palazuelos E, et al. 1996. Dietary and environmental determinants of blood and bone lead levels in lactating postpartum women living in Mexico City. *Environ Health Perspect* 104(10):1076-1082.
- Hernandez-Avila M, Peterson KE, Gonzalez-Cossio T, et al. 2002. Effect of maternal bone lead on length and head circumference of newborns and 1-month-old infants. *Arch Environ Health* 57(5):482-488.
- Hernandez-Avila M, Smith D, Meneses F, et al. 1998. The influence of bone and blood lead on plasma lead levels in environmentally exposed adults. *Environ Health Perspect* 106(8):473-477.
- Hernandez-Avila M, Villalpano CG, Palazuelos E, et al. 2000. Determinants of blood lead levels across the menopausal transition. *Arch Environ Health* 53:355-360.
- Hernández-Ochoa I, García-Vargas G, López-Carrillo L, et al. 2005. Low lead environmental exposure alters semen quality and sperm chromatin condensation in northern Mexico. *Reprod Toxicol* 20(2):221-228. 10.1016/j.reprotox.2005.01.007.
- Hernberg S, Nikkanen J, Mellin G, et al. 1970.  $\delta$ -Aminolevulinic acid dehydrase as a measure of lead exposure. *Arch Environ Health* 21:140-145.
- Hertz-Picciotto I, Croft J. 1993. Review of the relation between blood lead and blood pressure. *Epidemiol Rev* 15(2):352-373.
- Hertz-Picciotto I, Schramm M, Watt-Morse M, et al. 2000. Patterns and determinants of blood lead during pregnancy. *Am J Epidemiol* 152:829-837.
- Hettiarachchi GM, Pierzynski GM, Oehme FW, et al. 2003. Treatment of contaminated soil with phosphorus and manganese oxide reduces lead absorption by Sprague-Dawley rats. *J Environ Qual* 32:1335-1345.
- Higgs FJ, Mielke HW, Brisco M. 1999. Soil lead at elementary public schools: Comparison between school properties and residential neighbourhoods of New Orleans. *Environ Geochem Health* 21(1):27-36.

## 8. REFERENCES

- Hilts SR. 2003. Effect of smelter emission reductions on children's blood lead levels. *Sci Total Environ* 303(1-2):51-58.
- Hirata M, Kosaka H. 1993. Effects of lead exposure on neurophysiological parameters. *Environ Res* 63:60-69.
- Hogan K, Marcus A, Smith R, et al. 1998. Integrated exposure uptake biokinetic model for lead in children: Empirical comparisons with epidemiologic data. *Environ Health Perspect* 106(Suppl 6):1557-1567.
- Hogstedt C, Hane M, Agrell A, et al. 1983. Neuropsychological test results and symptoms among workers with well-defined long-term exposure to lead. *Br J Ind Med* 40:99-105.
- Holland MG, Cawthon D. 2016. ACOEM Position Statement. Workplace lead exposure. *J Occup Environ Med* 58(12):e371-e374.
- Holmgren GGS, Meyer MW, Chaney RL, et al. 1993. Cadmium, lead, zinc, copper, and nickel in agricultural soils of the United States of America. *J Environ Qual* 22:335-348.
- Homan CS, Brogan GX, Orava RS. 1998. Lead toxicity. In: Viccellio P, ed. *Emergency toxicology*. Second ed. Philadelphia, PA: Lippincott-Raven, 363-378.
- Hon KL, Ching GK, Hung EC, et al. 2009. Serum lead levels in childhood eczema. *Clin Exp Dermatol* 34(7):e508-e509. 10.1111/j.1365-2230.2009.03596.x.
- Hon KLE, Wang SS, Hung ECW, et al. 2010. Serum levels of heavy metals in childhood eczema and skin diseases: Friends or foes. *Pediatric Allerg Immunol* 21(5):831-836. 10.1111/j.1399-3038.2010.01022.x.
- Hong CD, Hanenson IB, Lerner S, et al. 1980. Occupational exposure to lead: Effects on renal function. *Kidney Int* 18:489-494.
- Hong SB, Im MH, Kim JW, et al. 2015. Environmental lead exposure and attention deficit/hyperactivity disorder symptom domains in a community sample of South Korean school-age children. *Environ Health Perspect* 123(3):271-276. 10.1289/ehp.1307420.
- Hong YC, Kulkarni SS, Lim YH, et al. 2014. Postnatal growth following prenatal lead exposure and calcium intake. *Pediatrics* 134(6):1151-1159. 10.1542/peds.2014-1658.
- Hopkins MR, Ettinger AS, Hernández-Avila M, et al. 2008. Variants in iron metabolism genes predict higher blood lead levels in young children. *Environ Health Perspect* 116(9):1261-1266. 10.1289/ehp.11233.
- Hornung RW, Lanphear BP, Dietrich KN. 2009. Age of greatest susceptibility to childhood lead exposure: A new statistical approach. *Environ Health Perspect* 117(8):1309-1312. 10.1289/ehp.0800426.
- Hou S, Yuan L, Jin P, et al. 2013. A clinical study of the effects of lead poisoning on the intelligence and neurobehavioral abilities of children. *Theor Biol Medl Model* 10:13. 10.1186/1742-4682-10-13.
- Hsiao CL, Wu KH, Wan KS. 2011. Effects of environmental lead exposure on T-helper cell-specific cytokines in children. *J Immunotoxicol* 8(4):284-287. 10.3109/1547691X.2011.592162.
- Hsiao C-Y, Wu H-DI, Lai J-S, et al. 2001. A longitudinal study of the effects of long-term exposure to lead among lead battery factory workers in Taiwan (1989-1999). *Sci Total Environ* 279(1):151-158.
- Hsieh L-L, Liou S-H, Chen Y-H, et al. 2000. Association between aminolevulinic acid dehydratase genotype and blood lead levels in Taiwan. *J Occup Environ Med* 42(2):151-155.
- Hsieh TJ, Chen YC, Li CW, et al. 2009. A proton magnetic resonance spectroscopy study of the chronic lead effect on the basal ganglion and frontal and occipital lobes in middle-age adults. *Environ Health Perspect* 117(6):941-945. 10.1289/ehp.0800187.
- Hu H, Aro A, Payton M, et al. 1996a. The relationship of bone and blood lead to hypertension. The Normative Aging Study. *J Am Med Assoc* 275(15):1171-1176.
- Hu H, Hashimoto D, Besser M. 1996b. Levels of lead in blood and bone of women giving birth in a Boston hospital. *Arch Environ Health* 51(1):52-58.

## 8. REFERENCES

- Hu H, Shih R, Rothenberg S, et al. 2007. The epidemiology of lead toxicity in adults: Measuring dose and consideration of other methodologic issues. *Environ Health Perspect* 115(3):455-462. 10.1289/ehp.9783.
- Hu H, Tellez-Rojo MM, Bellinger D, et al. 2006. Fetal lead exposure at each stage of pregnancy as a predictor of infant mental development. *Environ Health Perspect* 114(11):1730-1735. 10.1289/ehp.9067.
- Hu H, Wu MT, Cheng Y, et al. 2001. The  $\alpha$ -aminolevulinic acid dehydratase (ALAD) polymorphism and bone and blood lead levels in community-exposed men: The Normative Aging Study. *Environ Health Perspect* 109:827-832.
- Hu J, Little J, Xu T, et al. 1999. Risk factors for kinkingoma in adults: A case-control study in northeast China. *Int J Cancer* 83:299-304.
- Hu X, Ding Z. 2009. Lead/cadmium contamination and lead isotopic ratios in vegetables grown in peri-urban and mining/smeltering contaminated sites in Nanjing, China. *Bull Environ Contam Toxicol* 82(1):80-84. 10.1007/s00128-008-9562-y.
- Huang J, Wu J, Li T, et al. 2011. Effect of exposure to trace elements in the soil on the prevalence of neural tube defects in a high-risk area of China. *Biomed Environ Sci* 24(2):94-101. 10.3967/0895-3988.2011.02.002.
- Huang WH, Lin JL, Lin-Tan DT, et al. 2013. Environmental lead exposure accelerates progressive diabetic nephropathy in type II diabetic patients. *BioMed Res Int* 2013:742545. 10.1155/2013/742545.
- Huang XP, Feng ZY, Zhai WL, et al. 1988. Chromosomal aberrations and sister chromatid exchanges in workers exposed to lead. *Biomed Environ Sci* 1:382-387.
- HUD. 2011. American Health Homes Survey. Lead and arsenic findings.
- HUD. 2017. Revised dust-lead action levels for risk assessment and clearance; clearance of porch floors. Washington, DC: U.S. Department of Housing and Urban Development. <https://portal.hud.gov/hudportal/documents/huddoc?id=leaddustclearance.pdf>. August 25, 2017.
- Huel G, Sahuquillo J, Debotte G, et al. 2008. Hair mercury negatively correlates with calcium pump activity in human term newborns and their mothers at delivery. *Environ Health Perspect* 116(2):263-267. 10.1289/ehp.10381.
- Hui CA. 2002. Lead distribution throughout soil, flora, and an invertebrate at a wetland skeet range. *J Toxicol Environ Health Part A* 65:1093-1107. 10.1080/0098410029007128 9.
- Hunt A, Johnson DL, Thornton I, et al. 1993. Apportioning the sources of lead in house dusts in the London borough of Richmond, England. *Sci Total Environ* 138(1-3):183-206.
- Huo X, Peng L, Qiu B, et al. 2014. ALAD genotypes and blood lead levels of neonates and children from e-waste exposure in Guiyu, China. *Environ Sci Pollut Res Int* 21(10):6744-6750. 10.1007/s11356-014-2596-2.
- Hursh J, Mercer T. 1970. Measurement of  $^{212}\text{Pb}$  loss rate from human lungs. *J Appl Physiol* 28(3):268-274.
- Hursh JB, Suomela J. 1968. Absorption of  $^{212}\text{Pb}$  from the gastrointestinal tract of man. *Acta Radiol* 7(2):108-120.
- Hursh JB, Clarkson TW, Miles EF, et al. 1989. Percutaneous absorption of mercury vapor by man. *Arch Environ Health* 44(2):120-127.
- Hursh JB, Schraub A, Sattler EL, et al. 1969. Fate of  $^{212}\text{Pb}$  inhaled by human subjects. *Health Phys* 16:257-267.
- Hwang YH, Chiang HY, Yen-Jean MC, et al. 2009. The association between low levels of lead in blood and occupational noise-induced hearing loss in steel workers. *Sci Total Environ* 408(1):43-49. 10.1016/j.scitotenv.2009.09.016.
- Hytten F. 1985. Blood volume changes in normal pregnancy. *Clin Haematol* 14(3):601-612.



## 8. REFERENCES

- IARC. 1987. Lead and lead compounds. IARC Monographs on the evaluation of carcinogenic risks to humans. Supplement 7. Overall evaluations of carcinogenicity: An updating of IARC monographs. Volumes 1 to 42. Lyon, France: International Agency for Research on Cancer. <http://monographs.iarc.fr/ENG/Monographs/suppl7/Suppl7-95.pdf>. May 4, 2017.
- IARC. 2006. IARC Monographs on the evaluation of carcinogenic risks to humans. Volume 87. Inorganic and organic lead compounds. Lyon, France: International Agency for Research on Cancer. <http://monographs.iarc.fr/ENG/Monographs/vol87/mono87.pdf>. May 4, 2017.
- IARC. 2017. Agents classified by the IARC Monographs, Volumes 1–118. Lyon, France: International Agency for Research on Cancer. [http://monographs.iarc.fr/ENG/Classification/List\\_of\\_Classifications.pdf](http://monographs.iarc.fr/ENG/Classification/List_of_Classifications.pdf). May 3, 2017.
- ICRP. 1994. Human respiratory tract model for radiological protection. International Commission on Radiological Protection. 36-53; 72-77; Annex F 415-432.
- Ignasiak Z, Slawinska T, Rozek K, et al. 2006. Lead and growth status of schoolchildren living in the copper basin of south-western Poland: Differential effects on bone growth. *Ann Hum Biol* 33(4):401-414. 10.1080/03014460600730752.
- Iijima K, Otake T, Yoshinaga J, et al. 2007. Cadmium, lead, and selenium in cord blood and thyroid hormone status of newborns. *Biol Trace Elem Res* 119(1):10-18. 10.1007/s12011-007-0057-1.
- Inskip MJ, Franklin CA, Baccanale CL, et al. 1996. Measurement of the flux of lead from bone to blood in a nonhuman primate (*Macaca fascicularis*) by sequential administration of stable lead isotopes. *Fundam Appl Toxicol* 33:235-245.
- Ionescu JG, Novotny J, Stejskal V, et al. 2007. Breast tumours strongly accumulate transition metals. *Maedica* 2(1):5-9.
- Irgens A, Kruger K, Skorve AH, et al. 1998. Reproductive outcome in offspring of parents occupationally exposed to lead in Norway. *Am J Ind Med* 34(5):431-437.
- IRIS. 2002. Tetraethyl lead; CASRN 78-00-2. Integrated Risk Information System. Washington, DC: U.S. Environmental Protection Agency. [https://cfpub.epa.gov/ncea/iris/iris\\_documents/documents/subst/0109\\_summary.pdf](https://cfpub.epa.gov/ncea/iris/iris_documents/documents/subst/0109_summary.pdf). May 4, 2017.
- IRIS. 2004. Lead and compounds (inorganic); CASRN 7439-92-1. Integrated Risk Information System. Washington, DC: U.S. Environmental Protection Agency. [https://cfpub.epa.gov/ncea/iris/iris\\_documents/documents/subst/0277\\_summary.pdf](https://cfpub.epa.gov/ncea/iris/iris_documents/documents/subst/0277_summary.pdf). May 4, 2017.
- Irvine G, Doyle JR, White PA, et al. 2014. Soil ingestion rate determination in a rural population of Alberta, Canada practicing a wilderness lifestyle. *Sci Total Environ* 470-471:138-146. 10.1016/j.scitotenv.2013.09.037.
- Iwata T, Yano E, Karita K, et al. 2005. Critical dose of lead affecting postural balance in workers. *Am J Ind Med* 48(5):319-325. 10.1002/ajim.20220.
- Jackson LW, Cromer BA, Panneeriselvam A. 2010. Association between bone turnover, micronutrient intake, and blood lead levels in pre- and postmenopausal women, NHANES 1999-2002. *Environ Health Perspect* 118(11):1590-1596.
- Jackson LW, Howards PP, Wactawski-Wende J, et al. 2011. The association between cadmium, lead and mercury blood levels and reproductive hormones among healthy, premenopausal women. *Hum Reprod* 26(10):2887-2895. 10.1093/humrep/der250.
- Jacobs DE. 2012. Lead. In: *Patty's toxicology*. 10.1002/0471435139.tox034.pub2.
- Jaeger RJ, Weiss AL, Manton WI. 1998. Isotopic ratio analysis in residential lead-based paint and associated surficial dust. *J Toxicol Clin Toxicol* 36(7):691-703.
- Jaffe EK, Martins J, Li J, et al. 2001. The molecular mechanism of lead inhibition of human uroporphobilinogen synthase. *J Biol Chem* 276(2):1531-1537. 10.1074/jbc.M007663200.
- Jaffe EK, Volin M, Bronson-Mullins CR, et al. 2000. An artificial gene for human uroporphobilinogen synthase allows comparison of an allelic variation implicated in susceptibility to lead poisoning. *J Biol Chem* 275(4):2619-2626.